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**MAGNETIC SILICA PARTICLE FOR NUCLEIC ACID BINDING AND ISOLATION
OF NUCLEIC ACID**

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Abstract of JP2000256388

PROBLEM TO BE SOLVED: To obtain a magnetic silica particle having excellent dispersion stability and magnetic separation, isolatable from a material containing a nucleic acid in high efficiency and with high purity, useful for nucleic acid binding in high productivity and to provide a method capable of isolating a nucleic acid from the material containing the nucleic acid in high efficiency and with high purity.

SOLUTION: The magnetic silica particle contains a metal or a metal oxide composed of a multidomain and has ≥ 0.1 m²/g and < 100 m²/g specific surface area. The method for isolating a nucleic acid comprises a process for bringing the magnetic silica particle into contact with a material containing a nucleic acid in a solution for extracting the nucleic acid so as to bond the nucleic acid to the surface of the magnetic silica particle for nucleic acid binding, a process for separating the magnetic silica particle for nucleic acid binding bonded to the nucleic acid from the solution for extracting the nucleic acid by magnetism, and a process for dissociating the nucleic acid bound with the magnetic silica particle for nucleic acid binding from the magnetic silica particle for nucleic acid binding.

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